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PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

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TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>		Application Number	09/990,099
		Filing Date	November 21, 2001
		First Named Inventor	Scott A. LESLEY
		Group Art Unit	1636
		Examiner Name	Daniel M. Sullivan
Total Number of Pages in This Submission		Attorney Docket Number	P0012US20

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Copies of 22 references; Return Postcard
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Hugh Wang, Reg. No. 47,163
Signature	
Date	October 3, 2003

CERTIFICATE OF MAILING			
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Effective 01/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 180

Complete if Known

Application Number 09/990,099
Filing Date November 21, 2001
First Named Inventor Scott A. LESLEY
Examiner Name Daniel M. Sullivan
Art Unit 1636
Attorney Docket No. P0012US20

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METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

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The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments
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FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	750	2001	375	Utility filing fee	
1002	330	2002	165	Design filing fee	
1003	520	2003	260	Plant filing fee	
1004	750	2004	375	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	
SUBTOTAL (1)					(\$ 0)

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims -20 ** = 0 X = 0
Independent Claims -3 ** = 0 X = 0
Multiple Dependent X = 0

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	84	2201	42	Independent claims in excess of 3
1203	280	2203	140	Multiple dependent claim, if not paid
1204	84	2204	42	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent
SUBTOTAL (2) (\$ 0)				

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1051	130	2051	65	Surcharge - late filing fee or oath
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.
1053	130	1053	130	Non-English specification
1812	2,520	1812	2,520	For filing a request for reexamination
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action
1251	110	2251	55	Extension for reply within first month
1252	410	2252	205	Extension for reply within second month
1253	930	2253	465	Extension for reply within third month
1254	1,450	2254	725	Extension for reply within fourth month
1255	1,970	2255	985	Extension for reply within fifth month
1401	320	2401	160	Notice of Appeal
1402	320	2402	160	Filing a brief in support of an appeal
1403	280	2403	140	Request for oral hearing
1451	1,510	1451	1,510	Petition to institute a public use proceeding
1452	110	2452	55	Petition to revive - unavoidable
1453	1,300	2453	650	Petition to revive - unintentional
1501	1,300	2501	650	Utility issue fee (or reissue)
1502	470	2502	235	Design issue fee
1503	630	2503	315	Plant issue fee
1460	130	1460	130	Petitions to the Commissioner
1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)
1806	180	1806	180	Submission of Information Disclosure Stmt
8021	40	8021	40	Recording each patent assignment per property (times number of properties)
1809	750	2809	375	Filing a submission after final rejection (37 CFR § 1.129(a))
1810	750	2810	375	For each additional invention to be examined (37 CFR § 1.129(b))
1801	750	2801	375	Request for Continued Examination (RCE)
1802	900	1802	900	Request for expedited examination of a design application

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$ 180)

SUBMITTED BY

Complete (if applicable)

Name (Print/Type) Hugh Wang Registration No. (Attorney/Agent) 47,163 Telephone 858-812-1539
Signature Date October 3, 2003

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Attorney Docket No.: P0012US20

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On October 3, 2003

By: *[Signature]*

Hugh Wang

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Scott A. Lesley et al.

Application No.: 09/990,099

Filed: November 21, 2001

For: SOLUBILITY REPORTER GENE
CONSTRUCTS

Examiner: Daniel M. Sullivan

Art Unit: 1636

**Supplemental Information Disclosure
Statement**

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Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The references cited on attached form PTO/SB/08A are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" section on any patents to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement, and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

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Scott Lesley et al.
Application No.: 09/990,099
Page 2

Please deduct the fee of \$180.00 for filing an Information Disclosure Statement from undersigned's Deposit Account No. 50-1885. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



Hugh Wang
Reg. No. 47,163

Genomics Institute of the Novartis Research Foundation
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 3

Complete if Known

Application Number	09/990,099
Filing Date	November 21, 2001
First Named Inventor	Scott A. LESLEY
Group Art Unit	1636
Examiner Name	Daniel M. Sullivan
Attorney Docket Number	P0012US20

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	AA	US-5,731,163	March 24, 1998	Vandyk et al.	
		US-			

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FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	AB	BAE et al., "Escherichia coli CspA-Family RNA Chaperones are Transcription Antiterminators," Proc. Natl. Acad. Sci. 97: 7784-7789, 2000.	
	AC	BECKMANN et al., "Interaction of Hsp 70 with Newly Synthesized Proteins: Implications for Protein Folding and Assembly," Science 248: 850-854.	
	AD	CALDAS et al., "The FtsJ/RrmJ Heat Shock Protein of Escherichia coli is a 23 S Ribosomal RNA Methyltransferase," Journal of Biological Chemistry 275: 16414-16419, 2000.	
	AE	CALDAS et al., "Translational Defects of Escherichia coli Mutants Deficient in the Um2552 23S Ribosomal RNA Methyltransferase RrmJ/FTSJ," Biochemical and Biophysical Research Communications 271: 714-718, 2000.	
	AF	CASHEL et al., "The Stringent Response," In Escherichia coli and Salmonella Cellular and Molecular Biology, Neidhardt, F.C. (Ed.) (ASM Press, Washington DC) - 1458-1496 (1996).	

Examiner
SignatureDate
Considered

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Sheet 2 of 3

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Application Number	09/990,099
Filing Date	November 21, 2001
First Named Inventor	Scott A. LESLEY
Group Art Unit	1636
Examiner Name	Daniel M. Sullivan
Attorney Docket Number	P0012US20

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

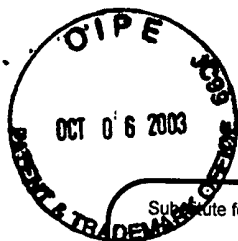
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	AG	GETHING, "The Difference with Prokaryotes," Nature 388: 329-331, 1997.	
	AH	GOLOUBINOFF et al., "Sequential Mechanism of Solubilization and Refolding of Stable Protein Aggregates by a Bichaperone network," Proc. Natl. Acad. Sci. 96: 13732-13737, 1999.	
	AI	HARTL, "Molecular Chaperones in Cellular Protein Folding," Nature 381: 571-580, 1996.	
	AJ	JIANG et al., "CspA, the Major Cold-shock Protein of Escherichia coli, is an RNA Chaperone," Journal of Biological Chemistry 272: 196-202, 1997.	
	AK	KORBER et al., "Hsp15: a Ribosome-associated Heat Shock Protein," European Molecular Biology Organization Journal 19: 741-748, 2000.	
	AL	LESLEY et al., "Gene Expression Response to Misfolded Protein as a Screen for Soluble Recombinant Protein," Protein Engineering 15: 153-160, 2002.	
	AM	LOCKHART et al., "Expression Monitoring by Hybridization to High-Density Oligonucleotide Arrays," Nature Biotechnology 14: 1675-1680, 1996.	
	AN	MOGK et al., "Identification of Thermolabile Escherichia coli Proteins: Prevention and Reversion of Aggregation by DnaK and ClpB," European Molecular Biology Organization Journal 18: 6934-6949, 1999.	
	AO	PUGLISI et al., "Approaching Translation at Atomic Resolution," Nature Structural Biology 7: 855-861, 2000.	
	AP	THOMAS et al., "Roles of the Escherichia coli Small Heat Shock Proteins IbpA and IbpB in Thermal Stress Management: Comparison with ClpA, ClpB, and HtpG in Vivo," Journal of Bacteriology 180: 5165-5172, 1998.	
	AQ	TROTTER et al., "Misfolded Proteins are Competent to Mediate a Subset of the Responses to Heat Shock in Saccharomyces cerevisiae," Journal of Biological Chemistry 277: 44817-44825, 2002.	

Examiner Signature		Date Considered	
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Sheet 3 of 3

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First Named Inventor	Scott A. LESLEY
Group Art Unit	1636
Examiner Name	Daniel M. Sullivan
Attorney Docket Number	P0012US20

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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	AR	VEINGER et al., "The Small Heat-shock Protein IbpB from Escherichia coli Stabilizes Stress-denatured Proteins for Subsequent Refolding by a Multichaperone Network," Journal of Biological Chemistry 273: 11032-11037, 1998.	
	AS	WALDO et al., "Rapid Protein-folding Assay Using Green Fluorescent Protein," Nature Biotechnology 17: 691-695, 1999.	
	AT	WANG et al., "CspI, the Ninth Member of the CspA Family of Escherichia coli, Is Induced upon Cold Shock," Journal of Bacteriology 181: 1603-1609, 1999.	
	AU	WIGLEY et al., "Protein Solubility and Folding Monitored in vivo by Structural Complementation of a Genetic Marker Protein," Nature Biotechnology 19: 131-136, 2001.	
	AV	WODICKA et al., "Genome-wide Expression Monitoring in Saccharomyces cerevisiae," Nature Biotechnology 15: 1359-1367, 1997.	

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